

**Response**

Applicant: David C. Collins

Serial No.: 10/821,130

Filed: April 8, 2004

Docket No.: 200400519-1

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

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**REMARKS**

The following remarks are made in response to the Office Action mailed Feb. 29, 2008. Claims 1, 2, and 4-29 were rejected. Claims 1, 2, and 4-29 remain pending in the application and are presented for reconsideration and allowance.

**Double Patenting**

Claims 1, 2, and 4-29 are provisionally rejected on the ground of non-statutory double patenting over:

1. Claims 1-30 of co-pending Application No. 10/820,952 in view of "Super-Resolution Composition in Multi-Projector Displays" by Jaynes et al. (Jaynes);
2. Claims 1-29 of co-pending Application No. 10/864,125 in view of Jaynes;
3. Claims 1-25 of co-pending Application No. 10/868,638 in view of Jaynes;
4. Claims 1-29 of co-pending Application No. 10/868,719 in view of Jaynes;
5. Claims 1-27 of co-pending Application No. 10/992,926 in view of Jaynes;
6. Claims 1-32 of co-pending Application No. 10/750,591 in view of Jaynes;
7. Claims ???<sup>1</sup> of co-pending Application No. 10/697,605 in view of Jaynes;
8. Claims 1-42 of co-pending Application No. 10/696,888 in view of Jaynes;
9. Claims 1-33 of co-pending Application No. 10/821,135 in view of Jaynes;
10. Claims 1-24 of co-pending Application No. 10/632,042 in view of Jaynes;
11. Claims 1-20 of co-pending Application No. 10/672,544 in view of Jaynes;
12. Claims 1-30 of co-pending Application No. 10/768,621 in view of Jaynes;
13. Claims 1-32 of co-pending Application No. 10/768,215 in view of Jaynes;
14. Claims 1-30 of co-pending Application No. 10/947,762 in view of Jaynes; and
15. Claims 1-26 of co-pending Application No. 10/996,083 in view of Jaynes.

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<sup>1</sup> The Office Action does not indicate which claims of co-pending Application No. 10/697,605, other than claim 1, form the basis of this rejection.

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Claims 1, 2, and 4-29 are rejected on the ground of non-statutory double patenting over:

1. Claims 1-33 of U.S. Patent No. 7,030,894 in view of Jaynes;
2. Claims 1-60 of U.S. Patent No. 7,034,811 in view of Jaynes; and
3. Claims 1-37 of U.S. Patent No. 7,109,981 in view of Jaynes.

As noted in the Office Action, none of the claims in the above applications or patents teaches the following features recited in claims 1, 2, and 4-29 of the present application.

With regard to claim 1 and dependent claims 2 and 4-10, none of the claims in the above applications or patents recites:

generating first and second sub-frames to include first and second sub-frame pixel values, respectively, and wherein the first sub-frame pixel value is calculated using the image data and the second sub-frame pixel value;  
alternating between displaying the first sub-frame including the first sub-frame pixel value in a first position and displaying the second sub-frame including the second one of the plurality of sub-frame pixel values in a second position spatially offset from the first position.

With regard to claim 11 and dependent claims 12-19, none of the claims in the above applications or patents recites:

an image processing unit configured to generate first and second sub-frames comprising a plurality of rows of sub-frame pixel values, wherein each of the sub-frame pixel values in each of the plurality of rows is calculated using the image data and at least one sub-frame pixel value from a previous one of the plurality of rows...

With regard to claim 20 and dependent claims 21-24, none of the claims in the above applications or patents recites:

means for generating a sub-frame pixel value using the row of history values and the plurality of rows of initial values.

With regard to claim 25 and dependent claims 26-29, none of the claims in the above applications or patents recites:

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generating a first sub-frame pixel value using the image data and the first plurality of initial values, wherein the first sub-frame pixel value comprises a first history value; ...

generating a second sub-frame pixel value using the image data, the second plurality of initial values, and the first history value.

The Office Action cites Figure 4 of Jaynes as a teaching or suggestion of the features of claims 1, 2, and 4-29 that are not recited in the claims of the above applications or patents. Figure 4 of Jaynes “depicts the theoretical problem [of Jaynes] to be solved” (paragraph above Figure 4) without illustrating a solution to the problem as recited in claims 1, 2, and 4-29. Accordingly, Figure 4 of Jaynes does not teach or suggest the above features of claims 1, 2, and 4-29.

Because neither the claims of the above applications or patents nor Figure 4 of Jaynes teach or suggest all of the features of claims 1, 2, and 4-29, Applicants respectfully request the withdrawal of the non-statutory double patenting rejections of claims 1, 2, and 4-29 for at least these reasons.

**Claim Rejections under 35 U.S.C. § 103**

Claims 1, 2, and 4-29 are rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Application Publication Number 2004/0027363 (Allen) in view of “Super-Resolution Composition in Multi-Projector Displays” by Jaynes et al. (“Jaynes”).

Applicant is filing herewith a Declaration under 37 C.F.R. 1.131 to swear behind Allen as prior art under 35 U.S.C. § 102(a). Applicants respectfully submit that, in view of the Declaration, Allen does not qualify as prior art a prior art reference under 35 U.S.C. § 102(a).

Allen and the present application were, at the time the invention of the present application was made, owned by or subject to an obligation of assignment to Hewlett-Packard Development Company, L.P. Allen was originally assigned to Hewlett-Packard Company (Reel/Frame 013561/0663) and was subsequently assigned to Hewlett-Packard Development Company, L.P. as recorded on June 8, 2003 (Reel/Frame 013776/0928). The present application was assigned to Hewlett-Packard Development Company, L.P. on April 7, 2004 (Reel/Frame 015196/0830). Applicants respectfully submit that, under 35 U.S.C. §103(c),

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Allen also does not qualify as a prior art reference under 35 U.S.C. § 102(e) for purposes of 35 U.S.C. §103(a).

Accordingly, Applicants respectfully request withdrawal of the rejections to claims 1-2 and 4-29 under 35 U.S.C. § 103(a).

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**CONCLUSION**

In view of the above, Applicant respectfully submits that pending claims 1, 2, and 4-29 are in form for allowance and are not taught or suggested by the cited references. Therefore, reconsideration and withdrawal of the rejections and allowance of claims 1, 2, and 4-29 is respectfully requested.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application. Any inquiry regarding this Amendment and Response should be directed to either Roger Greer at Telephone No. (312) 360-0080, Facsimile No. (312) 360-9315 or Christopher P. Kosh at Telephone No. (512) 241-2403, Facsimile No. (512) 241-2409. In addition, all correspondence should continue to be directed to the following address:

**Hewlett-Packard Company**

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Respectfully submitted,

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